 2a

CONFIDENTIAL

Joe It
Destructor Systems,
File.

P. O. BOX 216 – STATION A
COLUMBUS, OHIO

March 1, 1960

MAR 9 REC'D
1325

Dear Sir:

In accord with our recent discussions, we are enclosing five copies of a description of changes and additions relative to the Model 1 Incinerator.

If we encounter any other changes or additions, we shall pass them on to you.

Sincerely,

25X1

ABW:mlm

In Duplicate

Enclosures (5)

CONFIDENTIAL

Changes and Additions to the Model 1 Incinerator

The following changes and additions are to be made:

(1) On Drawing 354-100, Incinerator Assembly, lower right-hand corner:

"-302 Hinge Pin" should read "-363 Hinge Pin".

(2) On Drawing 354-311, Duct Flange:

Change "9/32 diam" to "3/8 diam" for all 12 holes.

(3) On Drawing 354-438, Duct Flange Gasket:

Change "9/32 diam" to "3/8 diam" for all 12 holes.

(4) On Drawing 354-397, Cap Screw (3/8"); Drawing 354-403, Nut; and Drawing 354-404, Lock Washer:

Add 12 to the number required, i.e., increase the number required from 64 to 76.

(5) Drawing 354-439, Cap Screw (5/16"); Drawing 354-440, Nut; and Drawing 354-441, Lock Washer:

These drawings are now obsolete.

(6) On Drawing 354-103, Bottom Assembly Outer Shell:

Install fittings which serve as pressure tap for rubber hose leading to manometer. See attached Figure 1 for details.

(7) On Drawings 354-430, -431, -432, and -433, Reflector Shield; Drawing 354-391, Radiation Shield; and Drawing 354-345, Door Shield:

The polished side of the 26-gage Type 304 stainless steel should have a No. 4 finish.

(8) On Drawing 354-325, Shield:

The polished side of the 20-gage Type 304 stainless steel should have a No. 4 finish.

(9) On Drawing 354-407, Seal Strip:

Change the 26-gage stainless steel sheet from Type 310 to Type 304. Although a polish is not needed on the seal strip, nevertheless the 26-gage Type 304 polished stainless steel sheet specified for radiation shields can also be used in constructing these seal strips.

(10) On Drawing 354-420, Vent Pipe Ring:

Change from 3/4" long to 15-3/4" long, to provide initial 15" length of straight stack.

(11) On Drawing 354-115, Stack Ring Assembly:

Install fitting to hold thermocouple as shown in attached Figure 2.

(12) On Drawing 354-371, Stiffener; Drawing 354-374, Frame; and Drawing 354-378, Pivot Angle:

Change all 21/32"-diam drilled holes to 41/64"-diam drilled holes, for tighter fit on pivots.

(13) On Drawing 354-327, Basket Top Band:

Reduce OD from 21-5/8" to 21-1/2" to provide assurance of fit between basket and top band during assembly.

The following items are needed and can either be purchased or prepared:

(1) Instruments and mounting panel, as shown in attached Figure 3, which also lists the materials and parts needed.

(2) Obtain two thermocouple assemblies (one as a spare). Suitable thermocouples can be ordered from:

Conax Corporation
2300 Walden Avenue
Buffalo 25, New York

Specify No. QD3-CA-(24)ST, which is a 24"-long, 3/16"-diameter well of Type 304 stainless steel with a 1/8" standard pipe thread (male) fitting, and has 24-gage Chromel-Alumel wires. Locate the end of the thermocouple at the center of the 16" stack by slipping it in the fitting supplied with the thermocouple.

(3) Obtain 12 feet of extension lead wire for Chromel-Alumel thermocouples to run between the thermocouple and the temperature indicator. This is sometimes called duplex lead wire. It can be purchased from:

Arklay S. Richards Co., Inc.
Newton Highlands 61, Massachusetts

or from:

L. H. Marshall Company
Columbus 2, Ohio

Specify 14-gage stranded wire with a durable covering such as cotton wrap, weatherproof braid, and rubber covering. Observe polarity when connecting the thermocouple circuit; determine the wire type with a small magnet, as follows:

(a) Chromel wire is non-magnetic, and is the positive terminal

(b) Alumel wire is magnetic, and is the negative terminal.

(4) Obtain 12 feet of laboratory-type rubber tubing, 3/32" ID and 1/8" wall thickness, for use in connecting one side (either side) of the manometer to the pressure tap at the bottom of the outer shell of the incinerator.

(5) Paint the outside surface of the unit with aluminum paint after taking the usual precaution of removing oil, dirt, and rust from the metal. Ordinary aluminum paint such as the "Peerless" brand, available from the Hanna Paint Manufacturing Company, Columbus, Ohio, or its equivalent, can be used for this purpose.